

Junction Boxes

Series 8102 made of Moulded Material, with 5 Mantle Terminals



- Small resistant Ex e enclosure for distributing electric energy
- Degree of protection IP66
- Equipped with 4 mantle terminals and 1 PE connection
- With semi-glands or plastic cable glands available

E3

WebCode **8102A**



R. STAHL Series 8102 junction boxes are small Ex e enclosures for transporting and distributing electric energy in hazardous areas. They are made from glass fibre-reinforced polyester resin and are therefore extremely robust. The junction box has 5 mantle terminals, whereby one is used as a PE connection point. The cable dia. range of the mantle terminals is 2 x 4 mm².

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table						
Product Description		Ex e junction box				
Figure	Product Type	Cable glands	Terminal	Art. No.	Weight kg	
	8102/21-42-C1151	2 x 8161/7-M20-1304 Polyamide cable gland M20 x 1.5 (4 – 13 mm) 1 x 8161/7-M25-1707 Polyamide cable gland M25 x 1.5 (7 – 17 mm)	5 x Mantle terminal 4 mm ²	132979	0.330	
	8102/21-32	3 x 8161/7-M20-1304 Polyamide cable gland, black M20 x 1.5 (4 – 13 mm)	5 x Mantle terminal 4 mm ²	218559 ■	0.330	
	8102/21-32-C995	3 x 8161/7-M20-1307 Polyamide cable gland, black M20 x 1.5 (7 – 13 mm)	5 x Mantle terminal 4 mm ²	132973 ■	0.200	
	8102/21-32-C1013	2 x 8161/7-M20-1304 Polyamide cable gland, black M20 x 1.5 (4 – 13 mm) 1 x 8290/3-M20 Polyamide stopping plug M20 x 1.5	5 x Mantle terminal 4 mm ²	132975 ■	0.330	
	8102/21-32-C2052	2 x 8161/7-M20-1304 Polyamide cable gland, black M20 x 1.5 (4 – 13 mm) 1 x 8290/3-M20 Polyamide stopping plug M20 x 1.5	5 x Mantle terminal 4 mm ²	258298	–	
	8102/21-31	3 x Semi-gland M20 (6.5 – 14 mm)	5 x Mantle terminal 4 mm ²	132988 ▲	0.300	



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Product Description		Ex i junction box			
Figure	Product Type	Cable glands	Terminal	Art. No.	Weight kg
	8102/22-31	3 x Semi-gland M20 (6.5 – 14 mm)	5 x Mantle terminal 4 mm ²	132989 ▲	0.300
	8102/22-32	3 x 8161/8-M20-1304 Polyamide cable gland, blue M20 x 1.5 (4 – 13 mm)	5 x Mantle terminal 4 mm ²	261597 ▲	0.330

Technical Data

Variant	Ex e junction box with semi-glands	Ex e junction box	Ex i junction box with semi-glands	Ex i junction box
Explosion Protection				
IECEX gas explosion protection	Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb	Ex ia ib IIC T6 Gb	Ex ia ib IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T90 °C Db	Ex tb IIIC T80 °C ... T90 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex eb IIC T6/T5 Gb	⊕ II 2 G Ex eb IIC T6/T5 Gb	⊕ II 2 G Ex ia ib IIC T6 Gb	⊕ II 2 G Ex ia ib IIC T6 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T80 °C ... T90 °C Db	⊕ II 2 D Ex tb IIIC T80 °C ... T90 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db	⊕ II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), IECEX (PTB), Taiwan (ITRI)	ATEX (PTB), IECEX (PTB), Taiwan (ITRI)	ATEX (PTB), IECEX (PTB), Taiwan (ITRI)	ATEX (PTB), IECEX (PTB), Taiwan (ITRI)
Notes	Product label may vary. Series devices have certification according to ATEX and IECEX.			
Electrical Data				
Rated operational current	16 A (T6) 25 A (T5)	16 A (T6) 25 A (T5)	10 A (T6)	10 A (T6)
Ambient Conditions				
Ambient temperature	-50 °C ... +55 °C (T6) -50 °C ... +70 °C (T5)	-40 °C ... +40 °C (T6) -40 °C ... +70 °C (T5)	-50 °C ... +70 °C (T6)	-40 °C ... +70 °C (T6)
Mechanical Data				
IP degree of protection (IEC 60529)	IP66	IP66	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced

Accessories

Figure	Description	Art. No.	Weight kg
Cable gland made of plastic			
	8161/7-M20-1304, Ex e Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm Lot size 50 pieces	239156 ▲	0.013
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157 ▲	0.019
	8161/8-M20-1304, Ex i Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm Lot size 50 pieces	239164 ▲	0.013

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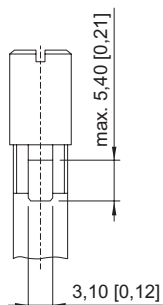
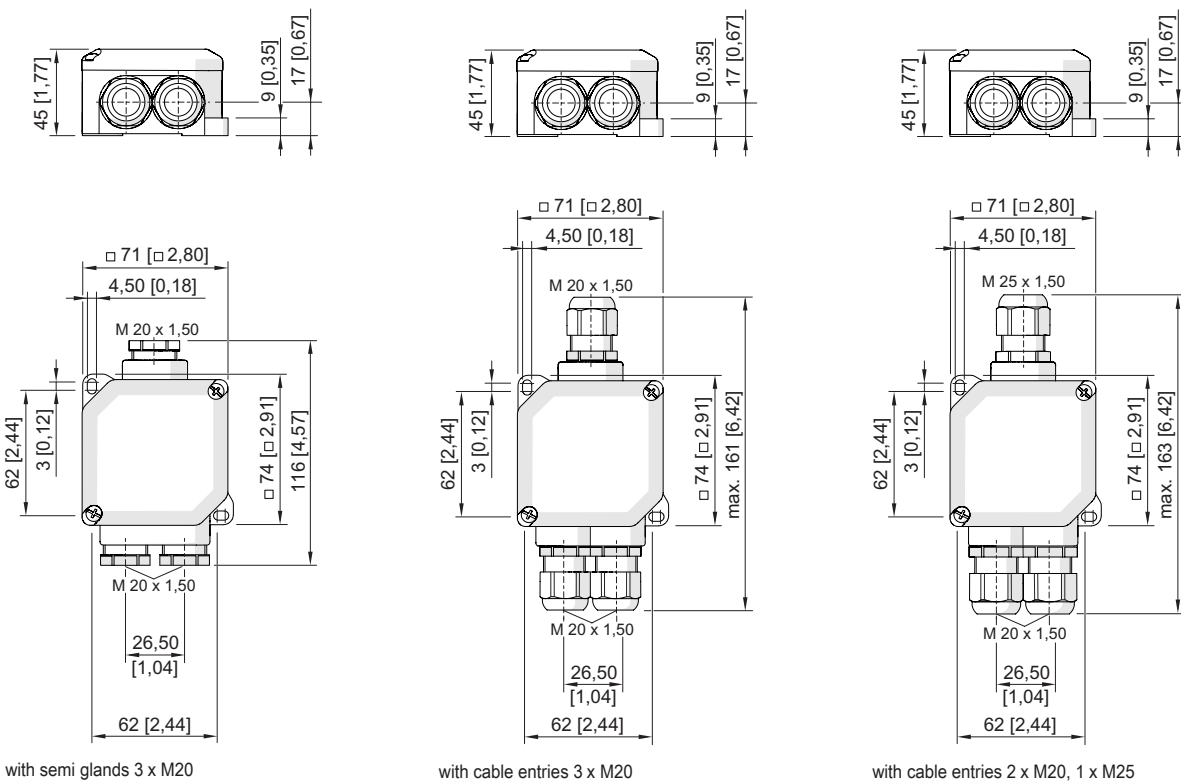
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Accessories

Figure	Description	Art. No.	Weight kg
	8290/3-M20 Plastic, M20 x 1.5 Lot size 1 piece	143522 ▲	0.005

Lot size: Purchase order quantity in [pieces], the delivery quantity is automatically rounded to the lot size.

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Layout of available connection chamber of sheath terminal

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